



A Report of the Celebration of World Water Day On 19-20th March, 2024



By:

**DESKU EIACP PC- RP on Environmental Biotechnology,
KU, Nadia, West Bengal**



**Sponsored by:
Ministry of Environment, Forest & Climate Change, GoI,
New Delhi**

World Water Day is an international observance and an opportunity to learn more about water related issues, be inspired to tell others and take action to make a difference. The United Nations General Assembly responded by designating 22 March 1993 as the first World Water Day. It has been held annually since then. The day is mainly intended to spread awareness about water. The intention of this day is to inspire people around the world to learn more about water-related issues and to take action to make a difference. The day is used to advocate for the sustainable management of freshwater resources. The theme of each year focuses on topics relevant to clean water, sanitation and hygiene (WASH), which is in line with the targets of Sustainable Development Goal 6. The UN World Water Development Report (WWDR) is released each year around World Water Day.

Every year, World Water Day campaign messages and publications reach millions of people through social media, dedicated websites and other channels. World Water Day campaign invited people to take part in a social media conversation about the value of water. The aim is to divert the attention of the people towards water resources management and protection. As a smart and advanced society we need to take steps towards the management and protection of natural resources and preservation of water so that we can leave it for our future generations. This World Water Day, we all need to unite around water and use water for peace, laying the foundations of a more stable and prosperous tomorrow.

The **theme for 2024 is "Water for Peace"**. Water can create peace or spark conflict. When water is scarce or polluted, or when people have unequal, or no access, tensions can rise between communities and countries. By cooperating on water, we can balance everyone's water needs and help stabilize the world. Prosperity and peace rely on water. As nations manage climate change, mass migration and political unrest, they must put water cooperation at the heart of their plans. Water can lead us out of crisis. We can foster harmony between communities and countries by uniting around the fair and sustainable use of water – from United Nations conventions at the international level, to actions at the local level.

DESKU Environmental Information, Awareness, Capacity Building and Livelihood Programme (EIACP), Programme Centre –Resource Partner (PC-RP) on Environmental Biotechnology, University of Kalyani, West Bengal, Supported by MoEF & CC, Govt. of India has taken initiation to mass awareness on world water day through various competitions among school, college and university students and also for public on 19-20th March, 2024. A brochure for the National level cum workshop on Water Conservation and Circulation was widely circulated through the website of University of Kalyani, facebook page, Whatsapp group and other social media.

Inauguration of the seminar

The inaugural programme of the seminar commenced at 11.00 am at University of Kalyani in the gracious presence of Hon'ble Vice Chancellor, Prof. Amalendu Bhuain, Invited speakers, Prof. (Dr.) Santanu Roy (Retd.), Department of Zoology, Visva-Bharati University, EIACP coordinator, Prof. Kausik Mondal, EIACP co-coordinator, Prof. Subhankar Kumar Sarkar; invited guests, former centre coordinators Prof. S. C. Santra and other dignitaries.

Hon'ble Vice Chancellor, Prof. Amalendu Bhuain, University of Kalyani initially encouraged participants to take photos with selfie point and addressed the inaugural session of the national seminar through his valuable speech. He talked about the theme for the World water Day 2024, which recognizes the theme for 2024 is "Water for Peace". He also mentioned that the day is mainly intended to spread awareness about the water for life. This day also celebrated worldwide by various activities and programmes related to water conservation and circulation in national as well as international level. Finally, he wished the seminar great success.

Then EIACP coordinator, Prof. Kausik Mondal welcomed to invited speakers and participants. He talked about the DESKU EIACP special day activities and aim of the water day. Then the EIACP co-coordinator, Prof. Subhankar Kumar Sarkar, invited guests, former centre coordinators Prof. S. C. Santra, Prof. Debansu Ray, Registrar, University of Klayani, Prof. Sankar Narayan Sinha, Department of Botany and Dr. Sukanta Majumder Assistant Controller of Examinations, Univesity of Klayani gave their valuable talk about the world water day.

Some selected Photos on Inaugural session of the waterday National Level Seminar cum Workshop on 19th March, 2024 by DESKU EIACP RP, University of Kalyani



Inauguration of the Seminar through lighting a lamp

Felicitation of the dignitaries with plant sapling and mementoes.



Photo session with experts with selfie point



Felicitation of the dignitaries with plant sapling and mementoes.



Photo session of school students with selfie point



Photo session of school students with selfie point



Group photographs of participants with experts

Then the technical session was conducted after tea break with the lecture of Prof. (Dr.) Santanu Roy (Retd.), Department of Zoology, Visva-Bharati University. He described the sources of water, conservation, uses and networks of water issues. Participant queries were also answered by the experts.

In the afternoon session the science model/project and poster competitions were organized among participants with the chairmanship of Prof. S. C. Santra, founder coordinator, DESKU EIACP RP and Prof. Zahed Hossain, Department of Botany, KU. Participants presented their models/projects and posters in front of experts.



Technical session by Prof. (Dr.) Santanu Roy (Retd.), Department of Zoology, Visva-Bharati University



Technical session by Prof. (Dr.) Santanu Roy (Retd.), Department of Zoology, Visva-Bharati University



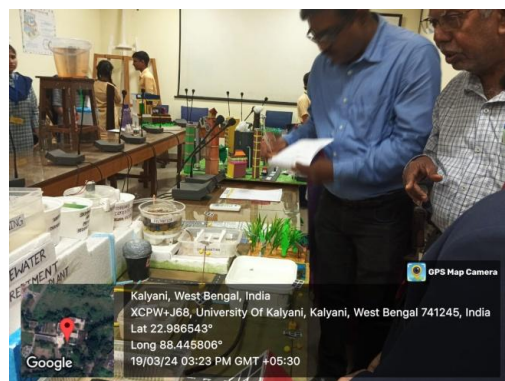
Participants in the technical session



Participants in the technical session



Prof. S. C. Santra and Prof. Zahed Hossain, evaluating the science model/project competitions.



Prof. S. C. Santra and Prof. Zahed Hossain, evaluating the science model/project competitions.



Prof. S. C. Santra and Prof. Zahed Hossain, evaluating the science model/project competitions.



Science model/project competitions were organized among the participants



Model discription by participants



Model discription by participants



Science model/project competitions were organized among participants



Poster presentation by the participant

Participant details

More than 100 participants from different schools such as Springdala High School, Don Bosco School Kalyani, Kalyani, Pratapnagar Giridhary High School (H.S), Lion's Calcutta Greater Vidyamandir, St. Xavier's Institution, Panihati and Nawabganj Balika Vidyalaya

colleges such as Bidhannagar college, Kolkata, Government General Degree Collage at Kharagpur II, Paschim Medinipur and from different universities like West Bengal State University, Rabindra Bharati University, university of Kalyani etc were participated in the programme.

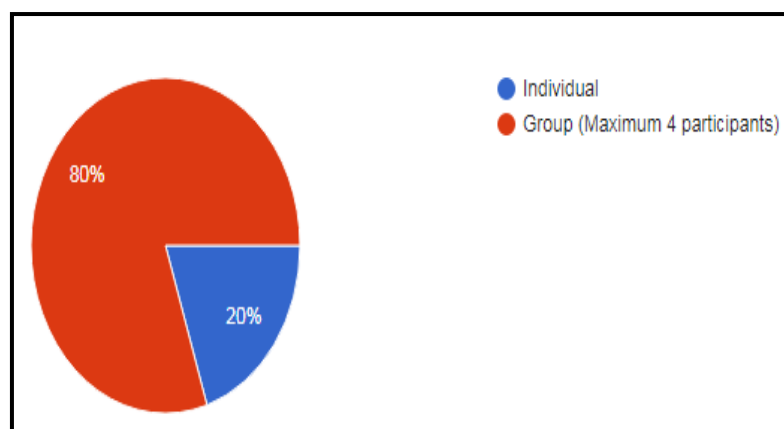
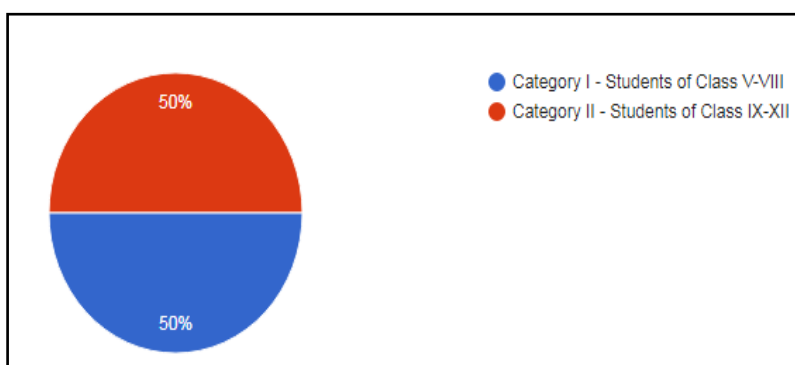
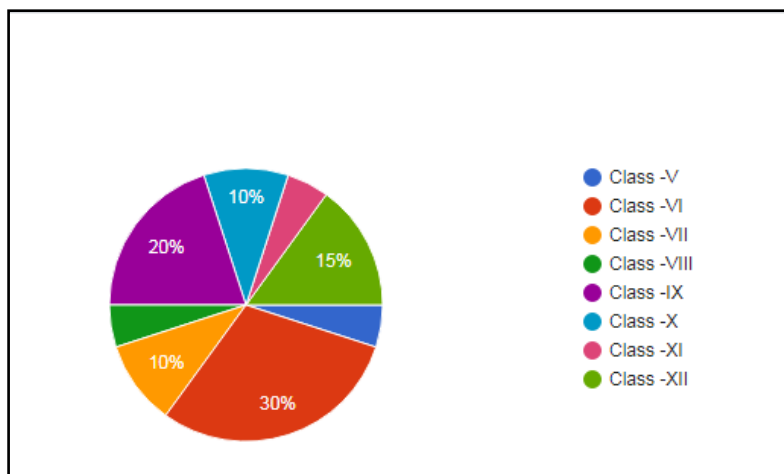
Participants of Model/project-Category-I (Class-V-VIII)

Sl. No	Name	School name
1	DISHITA HALDER	Springdale High School
	DOOROTYAYA NANDY	Springdale High School
	MOITREYEE MONDAL	Springdale High School
2	PRIYANSHU SARKAR	Don Bosco School Kalyani
	DEBADITYA BHATTACHARJEE	Don Bosco School Kalyani
	BARIUL HAQUE	Don Bosco School Kalyani
3	AMRITA SAMAL	Don Bosco School Kalyani
4	SUMAN SARDAR	Pratapnagar Giridhary High School (H.S)
	MAINAK ADHIKARY	Pratapnagar Giridhari High School (H.S)
	MEGNA MONDAL.	Pratapnagar Giridhari High School (H.S)
	JOYDEEP KARMAKAR	Pratapnagar Giridhari High School (H.S)
5	MEGHNA MONDAL	Lion's Calcutta Greater Vidyamandir
6	JOYDEEP KARMAKAR	Pratapnagar Giridhari High School
7	SUHANA MANDA	St. Xavier's Institution, Panihati
8	ARYAN MANDAL	St. Xavier's Institution

Participants of Model/project -Category-II (Class-IX-XII)

Sl. No	Name	School name
1	RUDRANIL PAL	Moheshpur High School (H.S.)
2	ANTARA SAHA	Springdale High School
	AYUSHMAN CHAKRABORTY	Springdale High School
	ARCHISMAN CHAKRABORTY	Springdale High School
	SOHALI PRAMANIK	Springdale High School
3	SADDAM HOSSAIN	Sripur High school
4	BRISHTI SAHOO	Subhasgram Nabatara Vidyalaya (H.S)
	RAHUL HALDER	Subhasgram Nabatara Vidyalaya (H.S)
	RINKY HALDER	Subhasgram Nabatara Vidyalaya (H.S)
	MAHUYA ROY CHOWDHURY	Pratapnagar giridhari high school (h.s)
5	ASTIKMUNI CHAKRABORTY	Pratapnagar giridhari high school (h.s)
6	RANOJIT MONDAL	Pratap nagar giri dhari high school
7		Nawabganj Balika Vidyalaya
	PURBA SUR	Nawabganj Balika Vidyalaya
	SURANGANA MALI	Nawabganj Balika Vidyalaya
	SNEHA GHOSH	Nawabganj Balika Vidyalaya
	BIPASHA MANDOL	Nawabganj Balika Vidyalaya
8	SUSMITA SARKAR	Pratap Nagar Giridhari high school
9	ABHIJIT PRAMANIK	Paratapnagar giridhari high school (H.S)

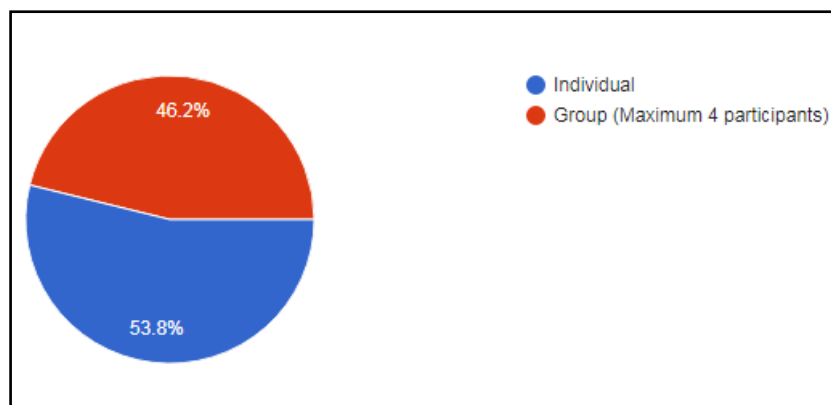
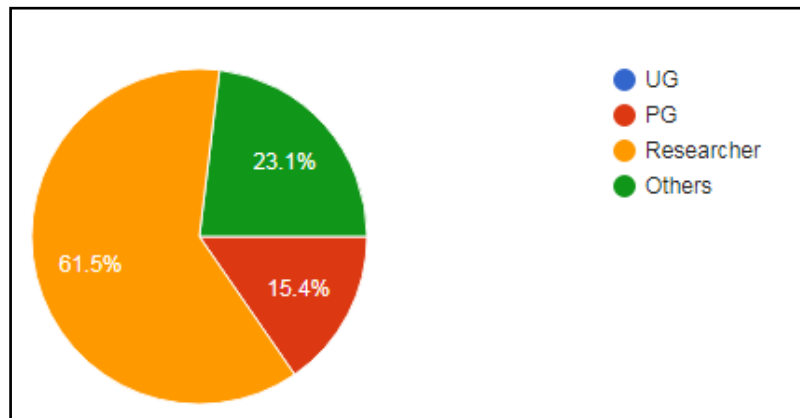
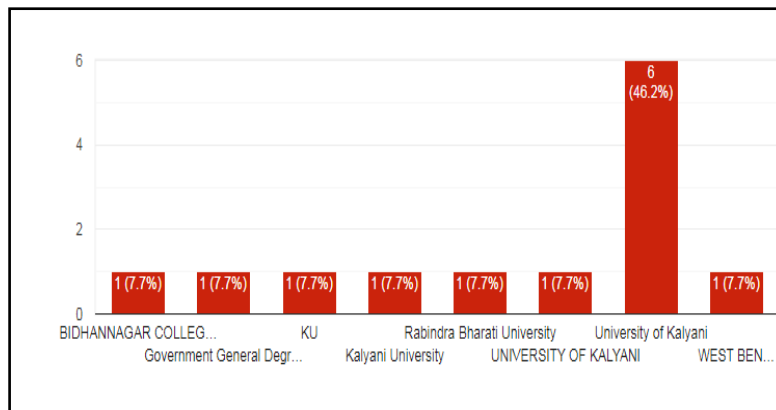
Model/project participants



Participants of Poster presentation

Sl. No	Name	Institute name
1	SRINJOY DAS	Bidhannagar college, Kolkata
2	MAHASWETA GUHA	West Bengal State University
3	PRANTIK ADHIKARY	Rabindra Bharati University
	DR. PRAJJAL DATTA	Government General Degree Collage at Kharagpur II, Madpur, Paschim Medinipur
4	SANKAR NARAYN SINHA	University of Kalyani
	NEHA HORE	University of Kalyani
	SAUMITA NATH	University of Kalyani
	SNIGDHA MAJUMDER	University of Kalyani
5	SONALI DAS	Kalyani University
6	UZMA MIR	University of Kalyani
7	DR. INDRANI KARKAR	University of Kalyani

Poster participants



Day Two (20th March, 2024)

On 20th March, 2024 field visits were arranged for the participants. Dr. Anusaya Mallick, Programme officer and Mr. Subham Dutta, Data Entry Operator attended the participants in the field.

FIELD VISIT

1. Sewage Water Treatment Plant, Kalyani

The purity of water is diminished when harmful microbes, organisms and other kinds of wastes get mixed with water. Water treatment plants play a significant part by removing undesirable suspended solids, chemicals and gases from water thus making it absolutely pure for the intended use. Compact water treatment plants, Containerized Water Treatment Plant, Surface Water Treatment are some of the many types of water treatment

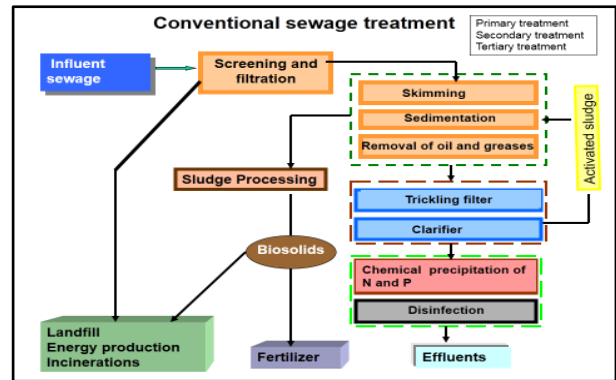
plants. Among the various methods used by water treatment plants to purify water are chlorination, disinfection, filtration and plenty more. The various water treatment plants can be reached out at their phone numbers. Micro Filtration Equipment, Activated Carbon Filters and Chlorine Dosing Systems are the various types of equipment which help to remove impurities from water. For bottled drinking water, the water is collected at the source, treated and are then packed in bottles before they are supplied to the market. The page above has details of all the well-known Water Treatment Plants in Kalyani.



Location map



Sludge settling tank



Sketch of sewage treatment plant



Trickling filter



Participants at Sewage Water Treatment Plant, Kalyani



Demonstration of the Sewage Water Treatment Plant, Kalyani by experts

2. Public Health Engineering Directorate (PHED), Kalyani

As per Rules of Business of the State Government, Public Health Engineering Department controls the Water Supply & Sanitation Budget of the State Government (major head 2215/4215) and undertakes programmes of implementation of water supply and sanitation services mainly through Public Health Engineering Directorate under its administrative control.

AIMS AND OBJECTIVES

- i. To know recent status of surface water quality in Nadia district.
- ii. Achieving a better understanding about the treatment process of drinking water through PHED (West Bengal).
- iii. Identify the efficiency of recent management practice (a comparative Study of pre treatment and post treatment of water quality for drinking point of view.
- iv. Take a concept about the social benefits around its commanding area.

PROCEDURE FOR RIVER WATER TREATMENT

➤ **INTAKE OF RAW WATER**

Source - Near Iswar Gupta Setu in char kanchrapara mouza(Hoogly river).

Intake amount: - 1650 m³/hour

Instruments - No. of Pump: - 4 pumps (Running – 2, Stand by – 2)

Type of pump - horizontal centrifugal pump.

➤ **INLET WELL**

The raw water first reaches into inlet chamber through Inlet pipe. Here the rate of flow of incoming raw water is 1650 m³/ hour.

➤ **COAGULATION AND FLOCCULATION** - Coagulation and flocculation are an essential part of drinking water treatment. The commonly used metal coagulants fall into two general categories: those based on aluminum and those based on iron. The aluminum coagulants include aluminum sulfate, aluminum chloride and sodium aluminate. The iron coagulants include ferric sulfate, ferrous sulfate, ferric chloride and ferric chloride sulfate. Other chemicals used as coagulants include hydrated lime and magnesium carbonate.

➤ **FLOCCULATION BY CLARIFLOCCULATOR** – Clarification refers to the sequence of operations used to remove **suspended solids (mineral and organic)** from the raw water together with a proportion of the **dissolved organic matter ("flocculating" fraction)**. Clariflocculator is a combination of flocculation and clarification in a single tank. It has two concentric tanks where inner tank serves as a flocculation basin and the outer tank serves as a clarifier. In the Clariflocculator, the water enters the flocculator, where the flocculating paddles enhance flocculation of the feed solids. As heavy particles settle to the bottom, the liquid flows radially upward in the clarifier zone, The clarified liquid is discharged over a peripheral weir into the peripheral launder. The deposited sludge is raked to the bottom near the central weir from where it is routed to the sludge chamber and discharged.

➤ **SAND BED FILTER** – Filtration plays an important role in the natural treatment of surface as it percolates through the soil. It is also a major part of most water treatment. Groundwater that has been softened, or treated through iron and manganese oxidation, requires filtration to remove flock created by coagulation or oxidation processes. Since surface water is subject to run-off and does not undergo natural filtration, it must be filtered to remove particles and impurities. Here the filtration process is occurring through **Rapid Sand Filter**.

➤ **DISINFECTION** – The goal of disinfection of public water supplies is the elimination of the pathogens that are responsible for waterborne diseases. The transmission of diseases such as typhoid and paratyphoid fevers, cholera, salmonellosis, and shigellosis can be controlled with treatments that substantially reduce the total number of viable microorganisms in the water.

➤ **CLEAR WATER RESERVOIR** - Last one step is known as storing of finally treated water in are server tank which is known as central water reservoir.

➤ **DISTRIBUTION OF TREATED WATER**

Finally, water is distributed around its commanding area through the over headed tank for using daily life. There are 13 over headed tank which list under following:

TABLE: LIST OF OVER HEAD RESERVOIRS

Zone	Location	Capacity (cum)
1	Fatepur	700
2	Hapania	1100
3	Jalkar Bhomra	900
4	Uttar Duttapara	600
5	Darrappur	250
6	Sauguna	900
7	Kumarpur	250
8	Tarinipur	900
9	Chandmari	700
10	Subarnapur	900
11	Birohi	600
12	Madanpur	410
13	Digha	500



Participants at the PHED, Kalyani



View of PHED, Kalyani



Participants at the PHED, Kalyani



Participants at the PHED, Kalyani

Valedictory session:

The valedictory session of the programme was celebrated on 20th March, 2024. Prof. Kausik Mondal, Coordinator, EIACP Resource Partner on Environmental Biotechnology, distributed the certificate and prize to the participants. Certificates were provided to the all registered participants. The seminar was concluded with vote thanks by Dr. Anusaya Mallick, Programme Officer, DESKU EIACP RP, KU.



Distributed of certificates and prize to the participants.



Distributed of certificates and prize to the participants.



Distributed of certificates and prize to the participants.



Distributed of certificates and prize to the participants.



Distributed of certificates and prize to the participants.



Group photographs of participants.

**Position holder of the Model/Project and poster competition on World
Water Day-2024**

Category-1 (Model/Project)

Sl. No	Name	Position	Name of the School
1	AMRITA SAMAL	1 st	Don Bosco School Kalyani
2	PRIYANSHU SARKAR	2 nd	Don Bosco School Kalyani
	DEBADITYA BHATTACHARJEE	2 nd	Don Bosco School Kalyani
	BARIUL HAQUE	2 nd	Don Bosco School Kalyani
3	DISHITA HALDER	3 rd	Springdale High School
	DOOROTYAYA NANDY	3 rd	Springdale High School
	MOITREYEE MONDAL	3 rd	Springdale High School

Category-2 (Model/Project)

1	ANTARA SAHA	1 st	Springdale High School
2	AYUSHMAN CHAKRABORTY	1 st	Springdale High School
3	ARCHISMAN CHAKRABORTY	1 st	Springdale High School
4	SOHALI PRAMANIK	1 st	Springdale High School
	PURBA SUR	2 nd	Nawabganj Balika Vidyalaya
	SURANGANA MALI	2 nd	Nawabganj Balika Vidyalaya
	SNEHA GHOSH	2 nd	Nawabganj Balika Vidyalaya
	BIPASHA MANDOL	2 nd	Nawabganj Balika Vidyalaya

Poster

1	SONALI DAS	1 st	Kalyani University
2	MAHASWETA GUHA	2 nd	West Bengal State University
3	DR. INDRANI KARKAR	3 rd	University of Kalyani



Published in University facebook account



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কল্যাণী বিশ্ববিদ্যালয়ে বিশ্ব জল দিবস উপলক্ষে আলোচনা চক্র

স্বাগতিক আহমেদ : কল্যাণী বিশ্ববিদ্যালয় পরিবেশগত তথ্য সচেতনতা সফর্মতা বৃদ্ধি এবং জীবিক কর্মসূচি-এর উদ্যোগে গত ১৯ ও ২০ মার্চ বিশ্ব জল দিবস উদযাপন করা হল একটি ত্রি-দিনসীমিত জাতীয় আলোচনা চক্র ও কর্মশালার মাধ্যমে।

পশ্চিমবঙ্গের বিভিন্ন প্রান্ত থেকে আসা ২২টি বিদ্যালয়, মহাবিদ্যালয় ও বিশ্ববিদ্যালয়ের ছাত্র-ছাত্রী, গবেষক-পর্বেবিকারদের নিয়ে এই আলোচনা চক্র ও কর্মশালার উদ্বোধন করেন কল্যাণী বিশ্ববিদ্যালয়ের উপাচার্য ড. অমলেন্দু মুখোপাধ্যায়। জল সরবরাহ ও তার ব্যবহার যোগ্য সরবরাহ নামাঙ্কিত এই আলোচনা চক্রের মূল আকর্ষণ হিসেবে ছাত্র-ছাত্রীদের মধ্যে বিজ্ঞান মডেল ও পোস্টার প্রতিযোগিতা। মূল আলোচনা চক্রে প্রধান বক্তা হিসেবে উপস্থিত ছিলেন বিশ্বভারতী বিশ্ববিদ্যালয়ের

প্রাণীবিদ্যা বিভাগের অধ্যাপক ড. শান্তনু রায় ও বিশিষ্ট বক্তা হিসেবে বক্তব্য রাখেন কল্যাণী বিশ্ববিদ্যালয়ের পরিবেশ বিজ্ঞানের বনামধন্য অধ্যাপক ড. সুভাষ চন্দ্র পাতরা। এই বছর বিশ্ব জল দিবসের থিম 'শান্তির উৎস' উদ্যোগের মূল কারিগর, পরিবেশগত তথ্য সচেতনতা সফর্মতা বৃদ্ধি এবং জীবিকা কর্মসূচির বোঝাইনিউটন অধ্যাপক ড. কৌশিক মণ্ডল তার বক্তব্যে আগামী প্রজন্মের কাছে পরিবেশগত জল ও পানীয় জলের তাৎপর্য ও প্রয়োজনীয়তা সম্পর্কে অত্যন্ত সার্বভৌম ও মনোহারা বক্তব্য রাখতে গিয়ে আগামী প্রজন্মকেই জল সংরক্ষণ করার দায়িত্ব নেওয়ার জন্য আহ্বান প্রকাশ করেন ও তাদের উচ্ছ্বাসিত করেন। তিনি বলেন, প্রত্যেকটি মানুষকে নিজের মতো করে দায়িত্ব নিলে তবেই

জলকে সুবক্ষিত রাখা যাবে। সরকারের ওপর সব দায়িত্ব ছেড়ে নিজেদের সূনাগরিক হিসেবে নিজস্বের কর্তব্য না পালন করলে আগামী প্রজন্মের জন্য আমরা সুস্থ ও সুন্দর পৃথিবী রেখে যেতে পারবো না। সর্বোপরি সৃজনশীলতা ও মৌলিকতায় ভরা এই দুদিনের এই অনুষ্ঠানের আয়োজকদের ভূয়সী প্রশংসা করেন রাজ্যের বিভিন্ন প্রান্ত থেকে আসা শিক্ষক, শিক্ষিকা ও অভিভাবকরা। তারা বলেন, এমন অনুষ্ঠান আরো হলে তারা সবলে পুনরায় সন্মিলন হবেন। ভারত সরকারের মিনিষ্ট্রি অফ এনভায়নমেন্ট স্ট্র্যাটেজি এন্ড গ্রাইন্ডস্টোন চেঞ্জ দপ্তরের আয়োজনে সম্পূর্ণ আলোচনা চক্র ও কর্মশালাতে উপস্থিত হয়ে আয়োজকদের বিশেষভাবে ধন্যবাদ জ্ঞাপন করেন কল্যাণী বিশ্ববিদ্যালয়ের নিম্মক ড. দেবোৎ রায়।

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কল্যাণী বিশ্ববিদ্যালয়ে বিশ্ব জল দিবস উপলক্ষে আলোচনা চক্র দুদিন ধরে
<https://ayanbangla.in/abnnews/discussion-cycle-on-the-occasion-of-world-water-day-in-kalyani-university-lasted-for-two-days/>

PROGRAMME SCHEDULE

DAY ONE: Thursday, 19 th March, 2024	
Registration	10.00 AM-10.30 AM
Setup the Models and Poster	10.30A.M-11.0 0 AM
Inaugural Session	11.00-11.30 PM
	11.00 AM: Lighting of Lamp & Felicitation of Dignitaries. 11.10 AM: Welcome address by Prof. (Dr.) Kausik Mondal, DESKU EIACP RP Coordinator, KU 11.15 AM: Address by Hon'ble Vice Chancellor Prof. (Dr.) Amalendu Bhunia, K.U 11.20 AM: Address by Prof. (Dr.) Subhankar Kumar Sarkar, DESKU EIACP RP deputy Coordinator, KU 11.25 AM: Special Guest: Prof. (Dr.) Subash Chandra Santra
Tea /Tiffin Break	11.30 AM
Technical session	11.45 AM: Prof. Santanu Roy, Retd. Professor, Department of Zoology, Visva-Bharati UniversityUniversity
Interaction session	1.00 PM
Lunch break	1.15 PM
Session-II (Model and Poster competitions 2:00 PM-5:00 PM)	
Session-II Model competition (2:00 PM-5:00 PM): (By Prof. Subhas Chandra Santra, Retd. Professor, Department of Environmental Science, KU	Session-II Poster competition (2:00 PM-5:00 PM): (By Prof. Zahed Hossain, Department of Botany, KU
Day One Wrap-up	
DAY TWO: Friday, 20 th March, 2024 (Field Visit and Valedictory)	
PHED, Kalyani	10.30 A.M
Waste Water Treatment Plant, Kalyani	12.00 A.M
Lunch	1.30 PM
Valedictory and Certificate distribution	2.30 PM
Vote of Thanks	3.30 PM

Faliciation of Toto driver on the occasion of World Water Day-2024

On the occasion of World Water Day DESKU EIACP faliciated the mission Life style for environment (LiFE) awareness campaign E-Rickshaw (Toto) driver by Mr. Tanmoy Acharjee, Infirmination Technical Officer, DESKU EIACP. The objective of these awareness programs is to promote a better understanding of LiFE's aspirations and the value of a sustainable lifestyle in changing environments.

